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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
08/848,243	04/29/1997	MASATOSHI NAGANO	35.C9371-CII	2521

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FITZPATRICK CELLA HARPER & SCINTO
30 ROCKEFELLER PLAZA
NEW YORK, NY 10112

EXAMINER

WILSON, JACQUELINE B

ART UNIT	PAPER NUMBER
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2612

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DATE MAILED: 07/01/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.
08/848,243

Applicant(s)
Nagano

Examiner
Jacqueline Wilson

Art Unit
2612



-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE three MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136 (a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on Apr 30, 2003
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11; 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-12 is/are pending in the application.
- 4a) Of the above, claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-12 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claims _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on _____ is: a) ☐ approved b) ☐ disapproved by the Examiner.
If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) ☒ Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some* c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- *See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgement is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- | | |
|---|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) Paper No(s). _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449) Paper No(s). _____ | 6) <input type="checkbox"/> Other: |

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DETAILED ACTION VIII

Response to Arguments

1. Applicant's arguments filed 04/30/03 have been fully considered but they are not persuasive.

The applicant argues that the prior art fails to teach the combined feature of the memory means and the control means functioning together as claimed in Claims 1 and 9. The examiner disagrees. Claim 1 states a memory means for storing correcting information for an output level change of the photoelectric conversion means caused by a change in an optical characteristic of the physical element with respect to a change in the light transmission factor throughout the physical element. Toda teaches that memory (438) stores information in which the physical element is adjusted. The CPU (437) obtains integrated RGB signals output from the photoelectric conversion means as a result of the light transmission factor of the physical element, and determines the degree of the light amount control or degree of the LC iris (col. 30, lines 47+). Once determination is made, the correcting information is read out of the memory (438) for changing the optical characteristic of the physical element (LC iris). The examiner strongly believes that once the CPU determines that the RGB signals have changed from the previous correction, this process repeats the process thereby maintaining an output level from the photoelectric conversion means. As previously discussed, the continuous loop of the image signal (which is split before the being digitally converted (415)) that enters the control circuit (432) for correcting the physical element (412) using the correcting information read out from the memory means (438) indicates that the physical element is controlled according to the corrected electrical image signal since the signal is continuously corrected. This

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reads on the combined features of the memory and control means as claimed in Claims 1 and 9. Therefore, the rejection is maintained.

Claim Rejections - 35 U.S.C. § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

3. Claims 1-12 are rejected under 35 U.S.C. 102(b) as being anticipated by Toda et al. (U.S. 5,047,847).

Regarding Claim 1, the examiner believes that the claims are written broadly enough to read on fig. 45 of Toda et al.'847. Toda et al.'847 teaches a "physical element" (referred to as an LC iris, fig. 45, element 412) arranged in a photographing optical system (referred to as an endoscope), "photoelectric conversion means" for receiving an optical image transmitted through the physical element at a position of an imaging plane and for converting the optical image into an electrical image signal (referred to as a CCD 411), "memory means" for storing correcting information for an output level change of the photoelectric conversion means caused by a change in an optical characteristic of the physical element with respect to a change of the light transmission factor throughout the physical element (col. 30, lines 47-56), and "control means" for correcting the

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electrical image signal output from the photoelectric conversion using the correcting information read out from the memory means in accordance with the current light transmission factor throughout the physical element, and controlling drive of the physical element according to the corrected electrical image signal (elements 437 and 439, col. 30, lines 47-62). The examiner interprets the function of the control means as follows. In fig. 45, correcting information output from the memory means (438) is supplied to the control (432, 437) for correcting the change in the optical characteristic of the physical element (412), and controlling drive of the physical element (439). Each time the correction loop is performed, the signal output from buffer (414) is a corrected electrical image signal which is supplied to the control means (432). Therefore, this reads on the limitation of the control means for controlling drive of the physical element according to the corrected electrical image signal.

Regarding Claim 2, Toda et al. '847 teaches the correction means adjusts a correction amount of wavelength dependency characteristics of the light transmission factor (col. 29, lines 40-42).

Regarding Claim 3, Toda et al. '847 teaches the correction by the correction means is achieved by auto white-balance control for an output signal from the photoelectric conversion means (col. 29, lines 22-28; col. 29, lines 35-40).

Regarding Claim 4, Toda et al. '847 teaches the correction of the correction means is achieved by changing a sensitivity of the photoelectric conversion means in accordance with a light wavelength (col. 29, lines 20-36).

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Regarding Claims 5 and 6, Toda et al. '847 teaches the correction by correction means is achieved by another physical element (filter) capable of controlling a light transmission factor in the photographing optical system (Fig. 56, element 650; col. 37, lines 47-60).

Regarding Claim 7, Toda et al. '847 teaches a correction means comprising a storage means for storing at least one of the light transmission factor wavelength dependency of the physical element and the correction amount of the light transmission factor wavelength dependency of the physical element (referred to as color correcting memory, Fig. 45, element 440; col. 31, lines 3-6).

Regarding Claim 8, Toda et al. '847 teaches the storage means stores at least one of a plurality of light transmission factor wavelength dependencies and a plurality of correction amounts in accordance with at least one of the light transmission factor and the light transmission amount of the physical element (col. 30, lines 47- col. 31, line 12).

Claim 9 is analyzed and discussed with respect to Claim 1. (See rejection of claim 1 above.)
The exposure amount adjustment means is the white balance correcting means (427).

Claims 10 and 11 are analyzed and discussed with respect to Claim 2. (See rejection of claim 2 above.)

Claim 12 is analyzed and discussed with respect to Claim 1. (See rejection of claim 1 above.)

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Conclusion

4. Any inquiries concerning this communication from the examiner should be directed to **Jacqueline Wilson** whose telephone number is (703) 308-5080. The examiner can normally be reached Monday-Friday (alternate Fridays off) from 9:00 A.M. to 5:00 P.M.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, **Wendy Garber**, can be reached at (703) 305-4929. The fax number for this group is (703) 872-9314.

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks
Washington, D.C. 20231

or Faxed to:

(703) 308-9051, (for formal communication intended for entry)

or:

(703) 872-9314, (for informal or draft communications, please label "PROPOSED" or "DRAFT")

Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive, Arlington, V.A., Sixth Floor (Receptionist).

JBW

June 25, 2003


WENDY R. GARBER
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2600